



264974be.app  
SEQUENCE LISTING

<110> CHOO, YEN  
KLUG, AARON  
ISALAN, MARK

<120> NUCLEIC ACID BINDING POLYPEPTIDE LIBRARY

<130> 71278/264974/BET

<140> 09/424,482  
<141> 2000-02-29

<150> 09/424,482  
<151> 1999-11-23

<150> PCT/GB98/01510  
<151> 1998-05-26

<150> GB 9710809.6  
<151> 1997-05-23

<160> 114

<170> PatentIn version 2.1

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sequence

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gnnncggcg  
9

<210> 2  
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sequence

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gcnnccggcg  
9

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sequence

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gcggnnnnn  
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 0-2 residues

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 1-5 residues

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 9-14 residues

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 3-6 residues

<400> 4  
 Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa  
 1 5 10 15  
 Xaa Xaa Xaa Xaa Xaa Xaa Xaa His Xaa Xaa Xaa Xaa Xaa Xaa  
 20 25 30

D

<210> 5  
 <211> 24  
 <212> PRT  
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<220>  
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 <223> Positions 3-6 may vary in length from  
 2-4 residues

D

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 2-3 residues

<400> 5  
 Xaa Cys Xaa Xaa Xaa Xaa Cys Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa  
 1 5 10 15

Leu Xaa Xaa His Xaa Xaa Xaa His  
 20

<210> 6  
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<400> 6  
 Thr Gly Glu Lys  
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<210> 7  
 <211> 5  
 <212> PRT  
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<220>  
 <223> Description of Artificial Sequence: Linker

<400> 7  
 Thr Gly Glu Lys Pro  
 1 5

<210> 8  
 <211> 26  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Consensus  
 structure sequence

<400> 8

D

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Pro Tyr Lys Cys Pro Glu Cys Gly Lys Ser Phe Ser Gln Lys Ser Asp  
1 5 10 15

Leu Val Lys His Gln Arg Thr His Thr Gly  
20 25

<210> 9

<211> 29

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Consensus  
structure sequence

<400> 9

Pro Tyr Lys Cys Ser Glu Cys Gly Lys Ala Phe Ser Gln Lys Ser Asn  
1 5 10 15

Leu Thr Arg His Gln Arg Ile His Thr Gly Glu Lys Pro  
20 25

<210> 10

<211> 6

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Leader peptide

<400> 10

Met Ala Glu Glu Lys Pro  
1 5

<210> 11

<211> 9

<212> DNA

<213> Artificial Sequence

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sorting sequence

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<222> (1)..(5)

<223> Any given nucleotide

<400> 11

nnnnnggcg

9

<210> 12

<211> 9

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Zinc finger -DNA  
interaction sequence

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cgcccacgc

9

<210> 13

<211> 9

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Zinc finger-DNA  
interaction sequence

<400> 13

acgcccacg

9

<210> 14

<211> 9

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Zinc finger-DNA  
interaction sequence

<400> 14

gcgtgggcg

9

D

<210> 15  
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 <223> Description of Artificial Sequence: Zinc finger-DNA  
 interaction library designed sequence

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 <222> (7)..(9)  
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<400> 15  
 acgccgnnn  
 9

<210> 16  
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<220>  
 <223> Description of Artificial Sequence: LIB-A and  
 LIB-B Zinc finger

<400> 16  
 Met Ala Glu Glu Arg Pro Tyr Ala Cys Pro Val Glu Ser Cys Asp Arg  
 1 5 10 15  
 Arg Phe Ser Arg Ser Asp Glu Leu Thr Arg His Ile Arg Ile His Thr  
 20 25 30  
 Gly Gln Lys Pro  
 35

<210> 17  
 <211> 28  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: LIB-A and

D



## LIB-B Zinc finger 2

<220>  
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 <222> (18)  
 <223> Any amino acid  
  
 <400> 17  
 Phe Gln Cys Arg Ile Cys Met Arg Asn Phe Ser Arg Ser Asp Asp Leu  
 1                      5                      10                      15  
  
 Thr Xaa His Ile Arg Thr His Thr Gly Glu Lys Pro  
                     20                      25

<210> 18  
 <211> 28  
 <212> PRT  
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<220>  
 <223> Description of Artificial Sequence: LIB-B Zinc finger 3

<220>  
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 <222> (12)  
 <223> Any amino acid

<220>  
 <221> MOD\_RES  
 <222> (14)  
 <223> Any amino acid

<400> 18  
 Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala Xaa Ser Xaa Asp Arg  
 1                      5                      10                      15

Lys Arg His Thr Lys Ile His Leu Arg Gln Lys Asp  
                     20                      25

<210> 19  
 <211> 28  
 <212> PRT  
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<220>  
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D

finger 3

<220>  
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 <400> 19  
 Phe Ala Cys Asp Ile Cys Gly Arg Lys Phe Ala Xaa Xaa Xaa Xaa Arg  
 1 5 10 15  
  
 Lys Arg His Thr Lys Ile His Leu Arg Gln Lys Asp  
 20 25

<210> 20  
 <211> 4  
 <212> PRT  
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<220>  
 <223> Description of Artificial Sequence: Zinc finger  
 peptide

<400> 20  
 Arg Leu Glu Tyr  
 1

<210> 21  
 <211> 4  
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<220>  
 <223> Description of Artificial Sequence: Zinc finger  
 peptide

<400> 21  
 Arg Ser Glu Asp  
 1

<210> 22  
 <211> 4  
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D

<220>

<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 22

Arg His Thr His  
1

<210> 23

<211> 4

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 23

Arg Ser Ser Glu  
1

<210> 24

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 24

Arg Ser Ser Ala  
1

<210> 25

<211> 4

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 25

Gln Val Thr Thr

1

<210> 26  
<211> 4  
<212> PRT  
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<220>

<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 26

Gln Ser Gly Asp

1

<210> 27  
<211> 4  
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<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 27

Gln Leu Ala Thr

1

<210> 28  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 28

Gln Asp Ala His

1

<210> 29  
<211> 4  
<212> PRT

D

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 29

Gln Arg Ala Ser  
1

<210> 30

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 30

Gln Ser Thr Ser  
1

<210> 31

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 31

Ser Ser Gly Asp  
1

<210> 32

<211> 4

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 32  
Ser Ala Ser Ala  
1

<210> 33  
<211> 4  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 33  
Asn Ser Gly Asp  
1

<210> 34  
<211> 4  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 34  
Leu Val Gln Asn  
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<210> 35  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 35  
Thr Gly Ala Ser  
1

<210> 36

<211> 4  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 36  
Thr Pro Ser Gly  
1

<210> 37  
<211> 4  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 37  
Thr Gln Thr Ala  
1

<210> 38  
<211> 4  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 38  
Thr Ser Ala Ala  
1

<210> 39  
<211> 4  
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<220>  
<223> Description of Artificial Sequence: Zinc finger

peptide

<400> 39

Asp Thr Ser Val

1

<210> 40

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Zinc finger  
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<400> 40

Asp Ala Ser Thr

1

<210> 41

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Zinc finger  
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<400> 41

Asp Ala Ser Ala

1

<210> 42

<211> 4

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 42

Asp Thr Ser Ser

1



<210> 43  
<211> 4  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
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<400> 43  
Arg Asn His Asp  
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<210> 44  
<211> 4  
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<220>  
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Arg Ser Thr Asp  
1

<210> 45  
<211> 4  
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Arg Ser Thr Asp  
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<210> 46  
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<220>

<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 46

Ser Arg His Ser  
1

<210> 47

<211> 4

<212> PRT

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<223> Description of Artificial Sequence: Zinc finger  
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<400> 47

Arg Asn Ser Thr  
1

<210> 48

<211> 4

<212> PRT

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peptide

<400> 48

Arg Thr Ser Thr  
1

<210> 49

<211> 4

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 49

Thr Arg Tyr Ser

1

<210> 50  
<211> 4  
<212> PRT  
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<400> 50  
Arg Ala Gln Asn  
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<210> 51  
<211> 4  
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peptide

<400> 51  
Gln Ala Ala Thr  
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<210> 52  
<211> 4  
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peptide

<400> 52  
Gln Gly Thr Asn  
1

<210> 53  
<211> 4  
<212> PRT

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<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 53

Thr Ser Arg Asp

1

<210> 54

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 54

Gln Arg Gly Ala

1

<210> 55

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 55

Gln Ser Thr Thr

1

<210> 56

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 56  
Thr Ser Ser Ser  
1

<210> 57  
<211> 4  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

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Ser Ser Ser Thr  
1

<210> 58  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 58  
Thr Ile Ser Asn  
1

<210> 59  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 59  
Thr Ser Thr Ala  
1

<210> 60

<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 60  
Thr Ser Ser Leu  
1

<210> 61  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 61  
Thr Ser Ser Ile  
1

<210> 62  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 62  
Thr Ser Asn Ser  
1

<210> 63  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Zinc finger

peptide

<400> 63

Gly Ser Asn Asp

1

<210> 64

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 64

Thr Thr Ser Ser

1

<210> 65

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 65

Thr Ala Gly Ser

1

<210> 66

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 66

Thr Thr Ser Ser

1

D

<210> 67  
<211> 4  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 67  
Thr Ser Ser Ala  
1

<210> 68  
<211> 4  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 68  
Leu Ser Thr Thr  
1

<210> 69  
<211> 4  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 69  
Leu Ser Ser Thr  
1

<210> 70  
<211> 4  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 70  
Asp Pro His Asn  
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<210> 71  
<211> 4  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 71  
His Ser Lys Ser  
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<210> 72  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 72  
His Arg Gln Asn  
1

<210> 73  
<211> 4  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 73  
Asp Arg Ala Asn

1

<210> 74  
<211> 4  
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<220>  
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peptide

<400> 74  
Asp Arg Ala Asn  
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<210> 75  
<211> 4  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 75  
Arg Ser Gln Asp  
1

<210> 76  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 76  
Gln Val Gly His  
1

<210> 77  
<211> 4  
<212> PRT

D

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 77

Gln Leu Ala Thr

1

<210> 78

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 78

Thr Ser Gln Ala

1

<210> 79

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 79

Thr Ser Ala Ser

1

<210> 80

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 80  
Leu Ala Gln Thr  
1

<210> 81  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 81  
Arg Ser Arg Asp  
1

<210> 82  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 82  
Arg Leu Arg Asp  
1

<210> 83  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 83  
His Leu Ala Thr  
1

<210> 84

<211> 4  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 84  
His Leu Thr Thr  
1

<210> 85  
<211> 4  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 85  
Val Gly His His  
1

<210> 86  
<211> 4  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 86  
His Pro Ala Thr  
1

<210> 87  
<211> 4  
<212> PRT  
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<220>  
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peptide

<400> 87

His Pro Ala Asn

1

<210> 88

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 88

His His Ser Asn

1

<210> 89

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 89

Asp Ser Arg Ala

1

<210> 90

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 90

Lys Ser Ser Asp

1

<210> 91  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 91  
Ser Ser Ser Asp  
1

<210> 92  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 92  
Arg Ser His Asp  
1

<210> 93  
<211> 4  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 93  
Arg Ser Ser Tyr  
1

<210> 94  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 94  
Arg Ser Ser Ser  
1

<210> 95  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Zinc finger  
peptide

<400> 95  
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peptide

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<212> PRT

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peptide

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